

## CLAIMS

What is claimed is:

1. A knife sharpener apparatus comprising:  
a clamping mechanism operable to secure a knife blade; and  
at least one infinitely adjustable guide rod coupled to the clamping mechanism to adjust a sharpening angle of the knife sharpener apparatus.
2. The knife sharpener apparatus of claim 1, wherein the clamping mechanism comprises a first clamp member coupled to a second clamp member.
3. The knife sharpener apparatus of claim 1, wherein the at least one infinitely adjustable guide rod is threaded.
4. The knife sharpener apparatus of claim 1, wherein the at least one infinitely adjustable guide rod is not threaded.
5. The knife sharpener apparatus of claim 1, wherein the clamping mechanism includes a plurality of apertures operable to receive the at least one infinitely adjustable guide rod, wherein moving the at least one infinitely adjustable guide rod from one of the plurality of apertures to another of the plurality of apertures changes a sharpening angle of the knife sharpener apparatus.
6. The knife sharpener apparatus of claim 5, wherein the plurality of apertures are located on a top portion of a clamp member.
7. The knife sharpener apparatus of claim 5, wherein the plurality of apertures are located on a side portion of a clamp member.

8. The knife sharpener apparatus of claim 1, further comprising at least one lock set to set a position of the guide rod.
9. The knife sharpener apparatus of claim 1, wherein the infinitely adjustable guide rod includes an integral guide loop.
10. The knife sharpener apparatus of claim 1, further comprising an infinitely adjustable guide loop coupled to the infinitely adjustable guide rod.
11. The knife sharpener apparatus of claim 10, further comprising a guide block to secure the infinitely adjustable guide loop to the infinitely adjustable guide rod.
12. The knife sharpener apparatus of claim 1, further comprising a swivel block to facilitate rotation of the infinitely adjustable guide rod towards the clamping mechanism.
13. A knife sharpener apparatus comprising:
  - a first clamp member;
  - a second clamp member coupled to the first clamp member, the first and second clamp members operable to secure a knife blade therebetween;
  - a first guide rod coupled to the first clamp member; and
  - a first infinitely adjustable guide loop coupled to the first guide rod to adjust a sharpening angle of the knife sharpener apparatus.
14. The knife sharpener apparatus of claim 13, further comprising a second guide rod coupled to the second clamp member.
15. The knife sharpener apparatus of claim 14, further comprising a second

infinitely adjustable guide loop coupled to the second guide rod.

16. The knife sharpener apparatus of claim 14, wherein a height of the first guide rod and a height of the second guide rod are adjustable.

17. The knife sharpener apparatus of claim 14, wherein a height of the first guide rod and a height of the second guide rod are infinitely adjustable.

18. The knife sharpener apparatus of claim 13, wherein a height of the first guide rod is infinitely adjustable.

19. The knife sharpener apparatus of claim 13, wherein at least one of the first clamp member and the second clamp member includes a plurality of apertures located therein to adjust a sharpening angle of the knife sharpener apparatus.

20. The knife sharpener apparatus of claim 13, wherein the first guide rod is foldable with respect to the first clamp member.

21. A knife sharpener apparatus comprising:  
a clamping mechanism; and  
a guide plate coupled to the clamping mechanism, the guide plate being at least one of vertically and horizontally adjustable with respect to the clamping mechanism.

22. The knife sharpener apparatus of claim 21, wherein the guide plate includes a plurality of holes to facilitate adjustment of the guide plate with respect to the clamping mechanism.

23. The knife sharpener apparatus of claim 21, wherein the guide plate

includes at least one slot to facilitate adjustment of the guide plate with respect to the clamping mechanism.

24. The knife sharpener apparatus of claim 21, wherein the guide plate includes a foot portion to facilitate rotation of the guide plate with respect to the clamping mechanism.

25. The knife sharpener apparatus of claim 24, wherein the foot portion of the guide plate includes a slot to facilitate forward and backward adjustment of the guide plate.

26. The knife sharpener apparatus of claim 21, further comprising a guide rod coupled to the guide plate to provide an infinitely adjustable sharpening angle of the apparatus when utilized with a bench hone.

27. A knife sharpener apparatus comprising:  
a clamping mechanism having a first clamp member and a second clamp member, wherein at least one of the first and second clamp members includes a plurality of apertures; and  
a guide rod to secure to any one of the plurality of apertures to determine a sharpening angle of the apparatus.

28. The knife sharpener apparatus of claim 27, wherein the plurality of apertures are located within a top portion of at least one of the first and second clamp members.

29. The knife sharpener apparatus of claim 27 wherein the plurality of apertures are located within a side portion of at least one of the first and second clamp members.

30. The knife sharpener apparatus of claim 27, wherein the guide rod is coupled to one of the plurality of apertures via a swivel block to facilitate foldability of the apparatus.
31. The knife sharpener apparatus of claim 27, wherein the guide rod is coupled to one of the plurality of apertures via a slot in a block to facilitate infinite adjustment of the guide rod along a length of at least one of the first and second clamp members.
32. The knife sharpener apparatus of claim 27, wherein the guide rod has an infinitely adjustable height.
33. The knife sharpener apparatus of claim 27, wherein the guide rod includes an integral guide loop.
34. The knife sharpener apparatus of claim 27, wherein the guide rod includes an infinitely adjustable guide loop.
35. A knife sharpener apparatus comprising:  
adjusting means for providing infinite sharpening angles for the apparatus;  
and  
means for facilitating compactability of the apparatus.